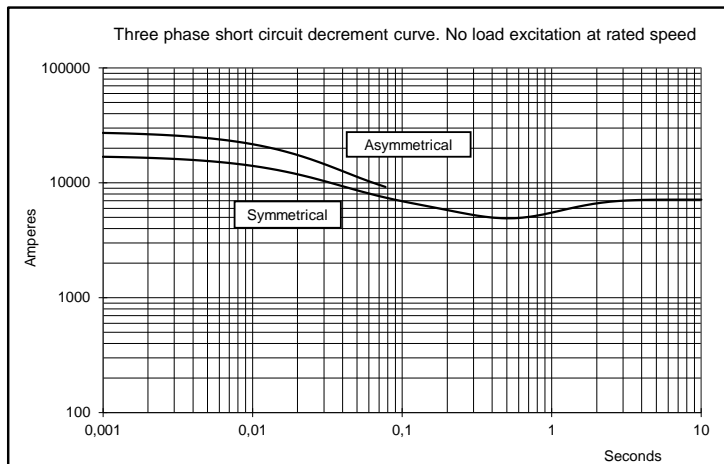
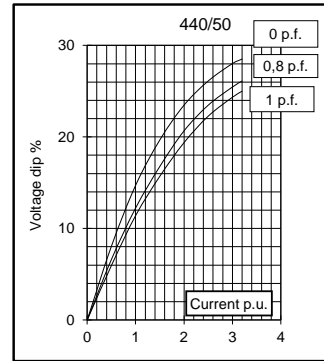
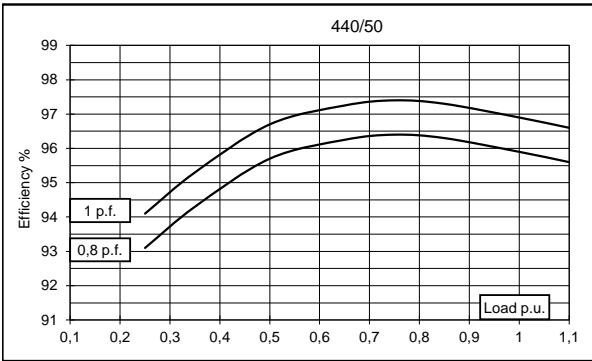
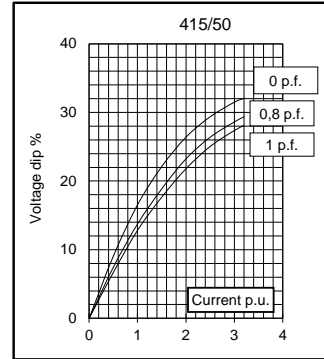
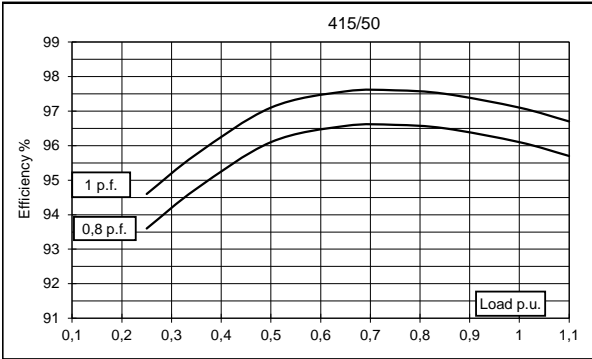
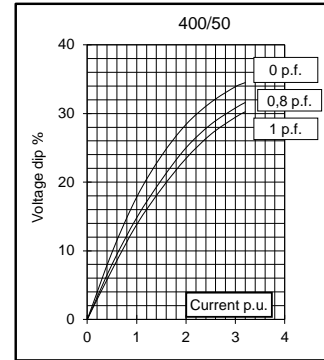
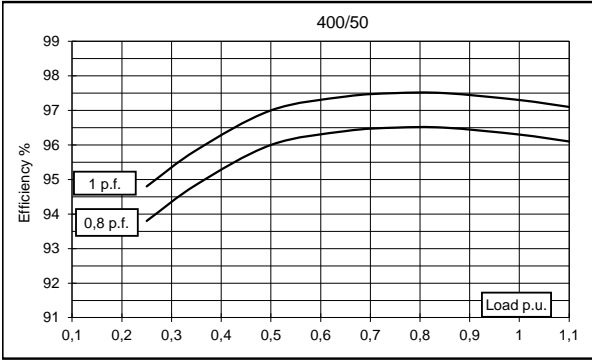
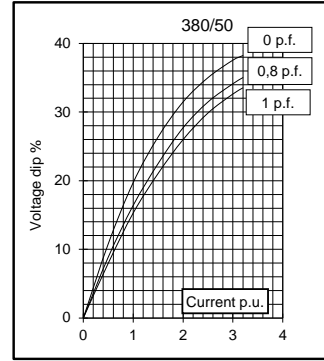
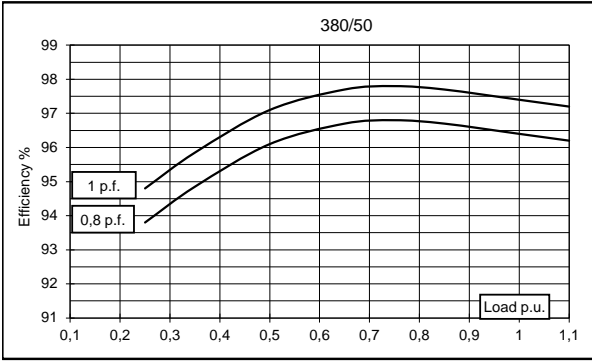


<b>Electrical Characteristics</b>										
Frequency	Hz	50				60				
Voltage (parallel star)	V	380	400	415	440	415	440	460	480	
Rated power class H	kVA	1650	1650	1650	1500	1730	1880	1980	1980	
	kW	1320	1320	1320	1200	910	1504	1584	1584	
Rated power class F	kVA	1480	1480	1480	1360	1570	1690	1780	1780	
	kW	1184	1184	1184	1088	1256	1352	1424	1424	
Regulation with	DER1	±1% with any power factor and speed variations between -5% +30%								
Insulation class		H								
Execution		Brushless								
Stator winding		12 ends								
Rotor		with damping cage								
Efficiencies class H	4/4	%	96,4	96,3	96,1	95,9	96,1	96,6	96,8	96,5
(see graph. for details)	3/4	%	96,8	96,5	96,6	96,4	96,3	96,6	96,8	96,6
	2/4	%	96,1	96	96,1	95,7	96	96,1	96,3	96,2
	1/4	%	93,8	93,8	93,6	93,1	93,9	93,9	93,9	93,9
<b>Reactances (f. l.cl. F)</b>										
	Xd	%	315,8	285	264,8	216,4	336,3	322,0	310,3	285
	Xd'	%	31,2	28,2	26,2	21,4	33,3	31,9	30,71	28,2
	Xd''	%	15,3	13,8	12,8	10,5	16,3	15,6	15	13,8
	Xq	%	202	182,5	169,5	138,6	215,3	206,2	198,7	182,5
	Xq'	%	202	182,5	169,5	138,6	215,3	206,2	198,7	182,5
	Xq''	%	34,8	31,4	29,2	23,8	37,1	35,5	34,2	31,4
	X <sub>2</sub>	%	21,8	19,7	18,3	15,0	23	22,3	21,45	19,7
	X <sub>0</sub>	%	5,1	4,6	4,3	3,5	5,4	5,2	5,01	4,6
Short Circuit Ratio	Kcc		0,32	0,35	0,38	0,46	0,30	0,31	0,32	0,35
Time Constants	Td'	sec.	0,264							
	Td''	sec.	0,024							
	Tdo'	sec.	10,80							
	Tα	sec.	0,03							
Short Circuit Current Capacity		%	>300				>300			
Excitation at no load	Amp.		0,8	0,9	1,1	1,4	0,4	0,6	0,7	0,8
Excitation at full load	Amp.		2,6	2,8	2,9	3,1	2,5	2,6	2,6	2,7
Overload (long-term)	%	1 hour in a 6 hours period 110% rated load								
Overload per 20 sec.	%	300								
Stator Winding Resistance (20°C)	Ω	0,0034								
Rotor Winding Resistance (20°C)	Ω	3,319								
Exciter Resistance (20 °C)	Ω	Rotor : 0,120				Stator : 12,90				
Heat dissipation at f.l.cl.H	W	49295	50717	53569	51303	36930	52936	52364	57451	
Telephone Interference		THF < 2%				TIF < 40				
Radio interference		EN61000-6-3, EN61000-6-2. For others standards apply to factory								
Waveform Distors.(THD) at f. load	LL/LN %	3,3 / 3,2								
Waveform Distors.(THD) at no load	LL/LN %	2,9 / 3,0								
<b>Mechanical characteristics</b>										
Protection		IP 21 (other protection on request)								
DE bearing		6330								
NDE bearing		6324								
Weight of wound stator assembly	kg	1295								
Weight of wound rotor assembly	kg	845								
Weight of complete generator	kg	3380								
Maximun overspeed	rpm	2250								
Unbalanced magnetic pull at f.l.cl.F	kN/mm	6,4								
Cooling air requirement	m <sup>3</sup> /min	135				162				
Inertia Constant (H)	sec.	0,31				0,37				
Noise level at 1m/7m	dB(A)	97 / 86				100 / 91				

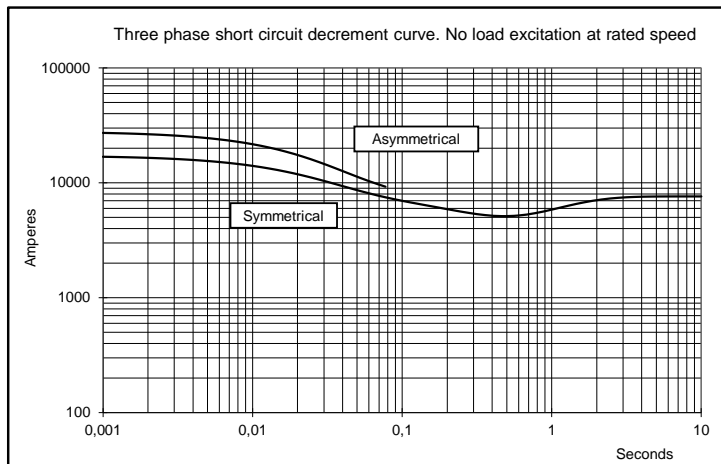
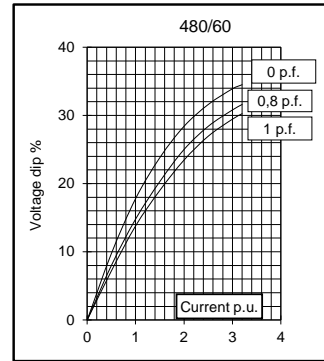
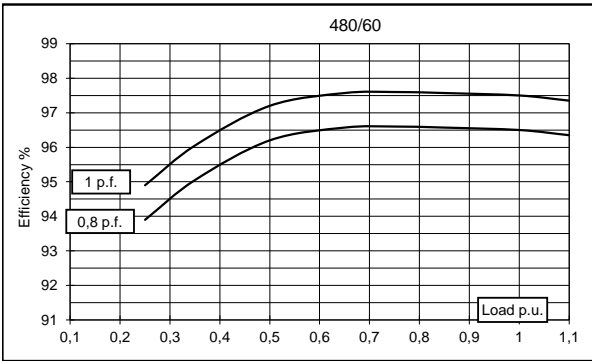
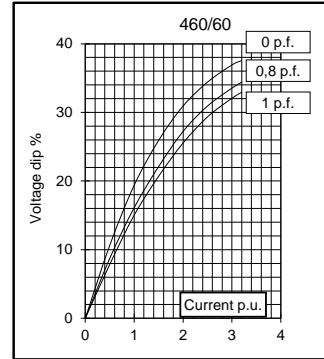
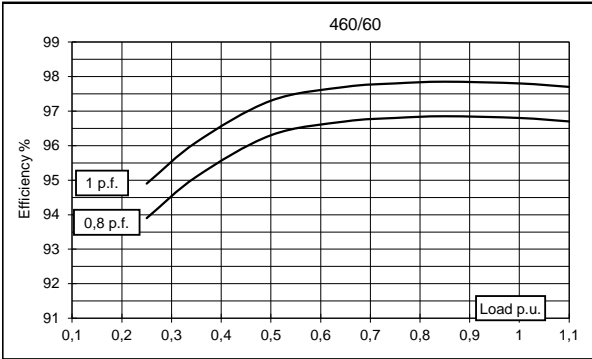
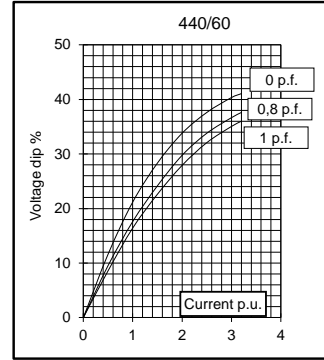
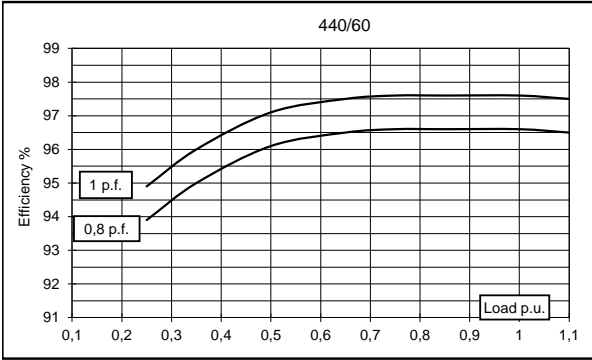
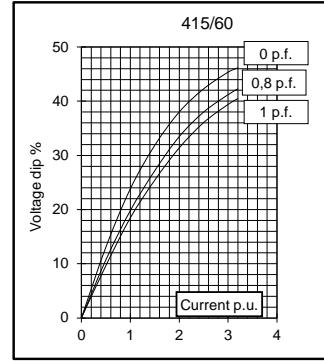
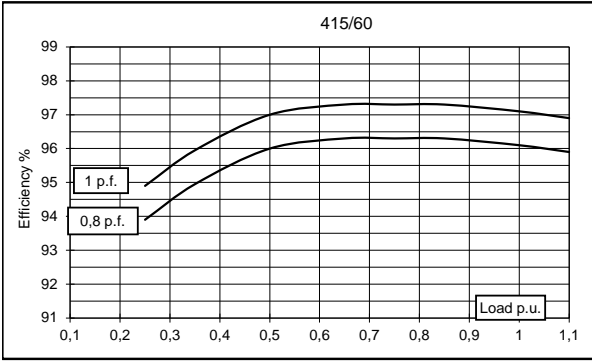
All technical data are to be considered as a reference and they can be modified without any notice.

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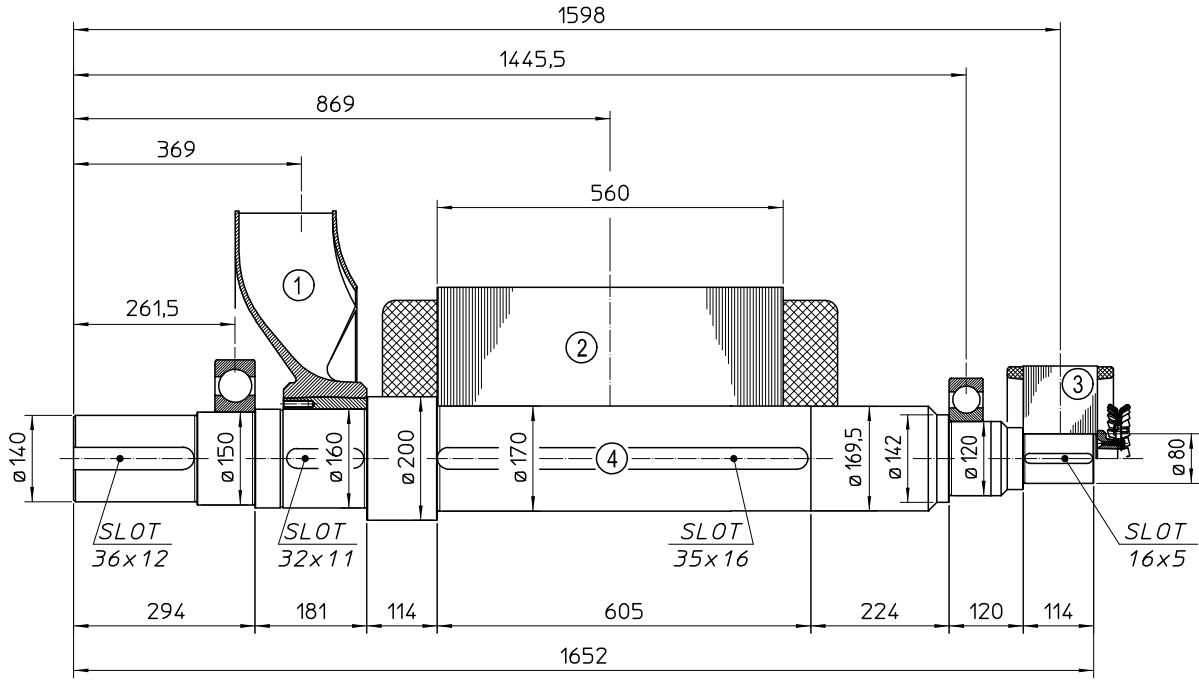
**50 Hz**



**60 Hz**

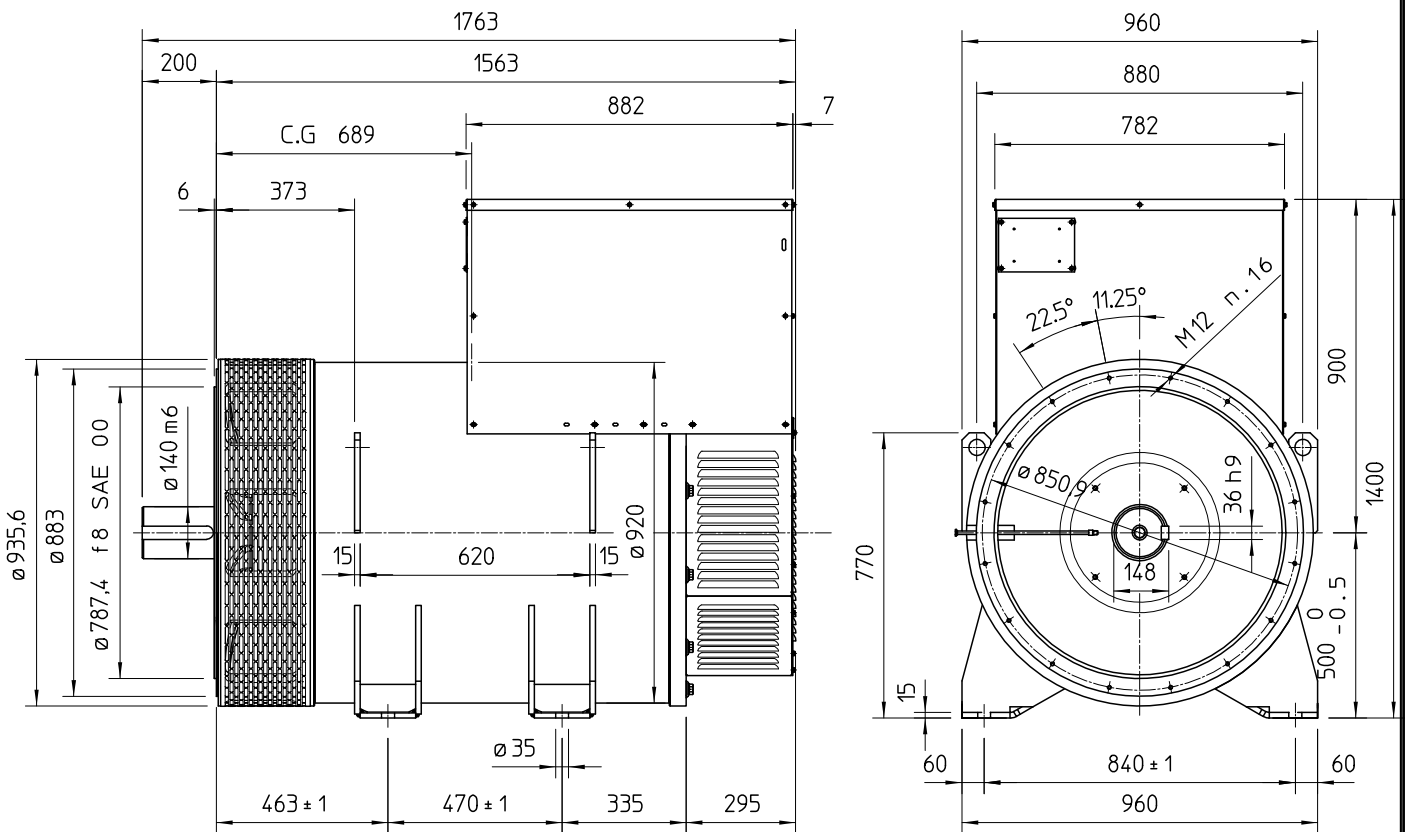


## TWO BEARING MOMENTS OF INERTIA



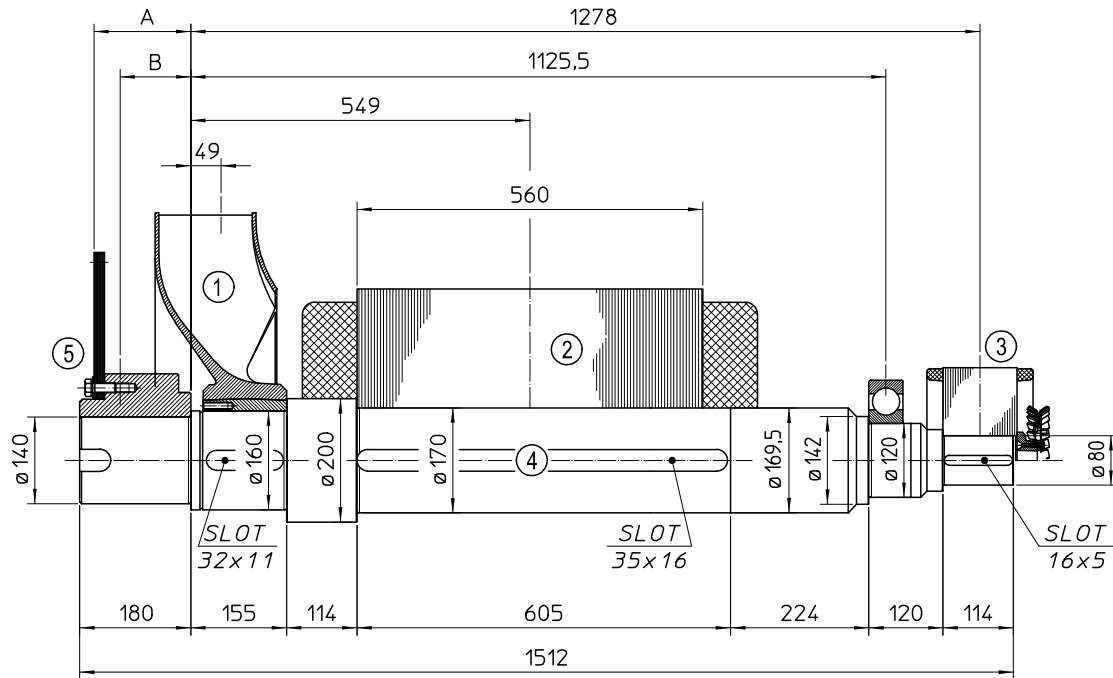
POS.	COMPONENT	WEIGHT (kg)	J (kgm <sup>2</sup> )
1	FAN	42.7	2,250
2	MAIN ROTOR	845	32,91
3	EX. ROTOR	60	0,730
4	SHAFT	248.3	0,844
TOTAL		1196	36.734

## TWO BEARING DIMENSIONS



C.G.= GRAVITY CENTER

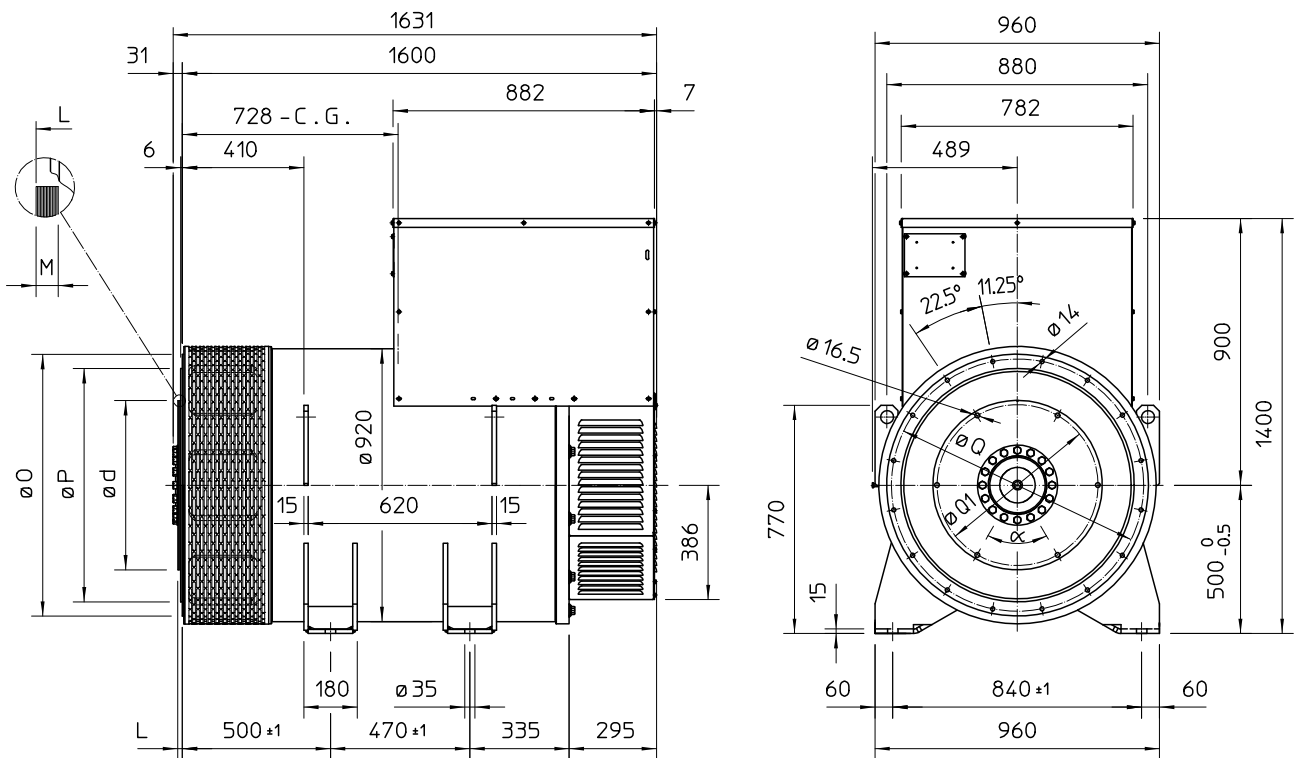
### SINGLE BEARING MOMENTS OF INERTIA



POS.	COMPONENT	WEIGHT (kg)	J (kgm <sup>2</sup> )
1	FAN	42.7	2,250
2	MAIN ROTOR	845	32,91
3	EX. ROTOR	60	0,730
4	SHAFT	230	0,792
TOTAL		1177.7	36.682

SAE N°	5		SHAFTS COUPLING FLEX PLATE		
	A	B	WEIGHT kg	J kgm <sup>2</sup>	
18	172.7	113.4	82.7	1.863	
21	157	114.6	93.6	3.206	

### SINGLE BEARING DIMENSIONS



SAE N°	FLANGE		
	O	P	Q
0	711	647.7	679.5
00	883	787.4	850.9

SAE N°	DISC COUPLING						
	d	L	M	Q1	HOLES N°	α	
18	571.5	15.7	15	542.92	6	60°	
21	673.1	0	17	641.35	12	30°	

C.G.= GRAVITY CENTER